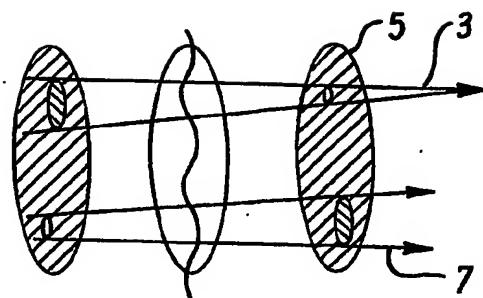
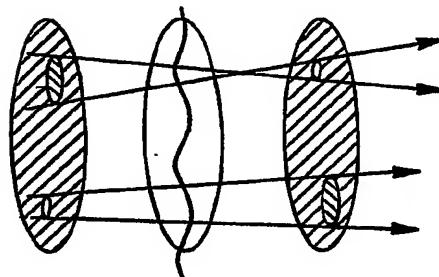


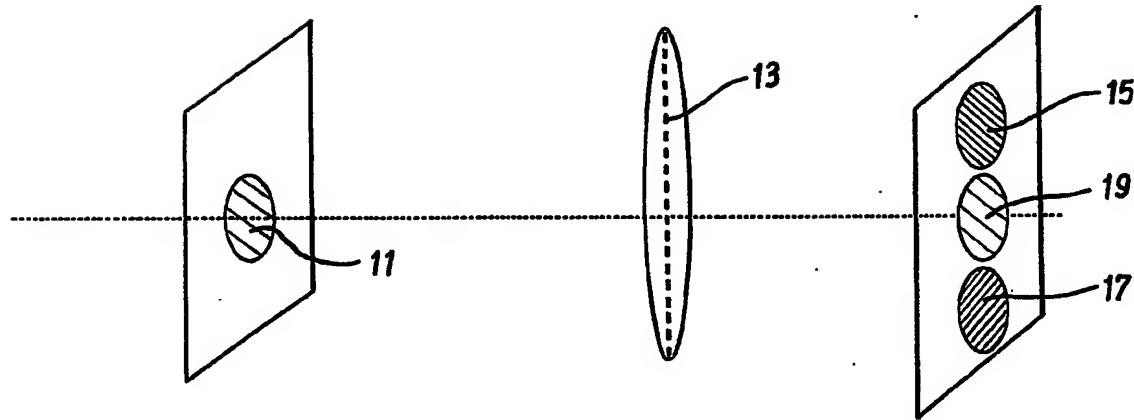
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*Fig. 1a*



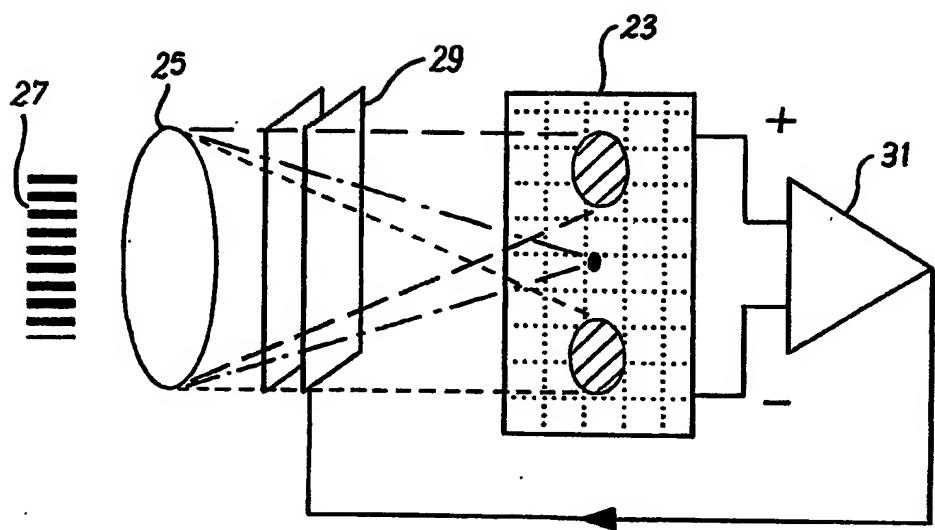
*Fig. 1b*



*Fig. 2*

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FIG. 3

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Original signal phase

Fig 4a

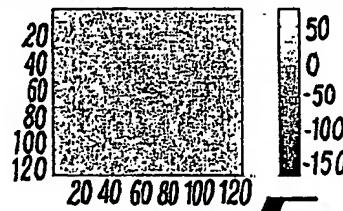
+1 diffraction order intensity

Fig 4b

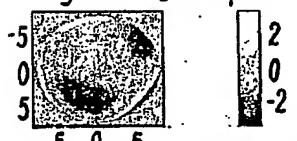
-1 diffraction order intensity

Fig 4c

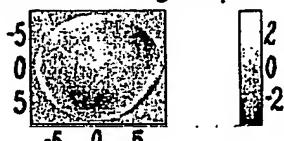
difference between +1 and -1 order intensity

Fig 4d

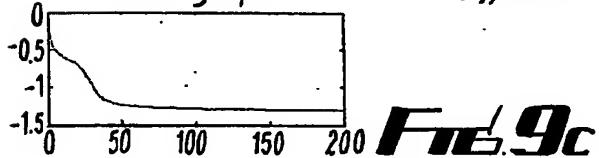
Original signal phase

Fig 9a

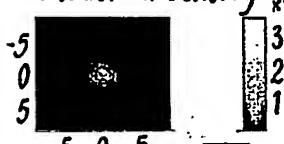
Retrieved signal phase

Fig 9b

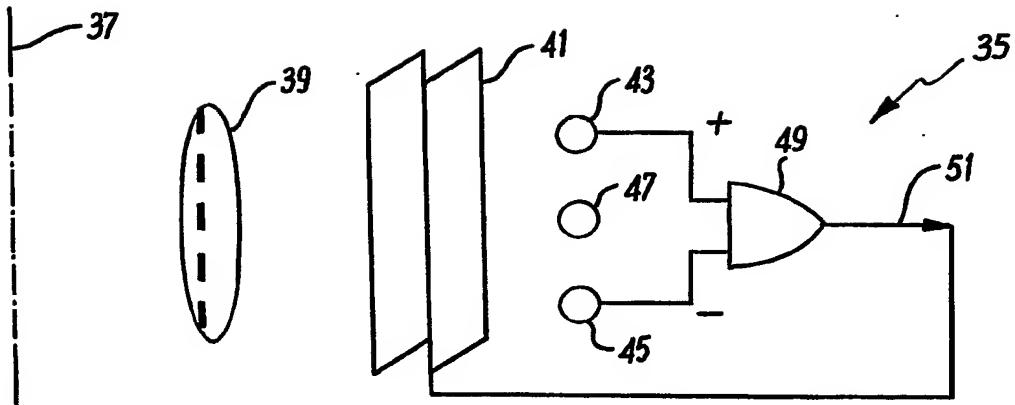
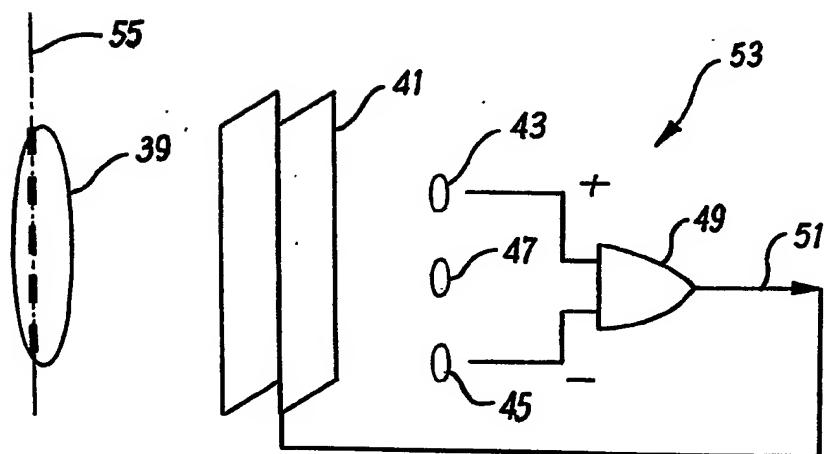
Error graph



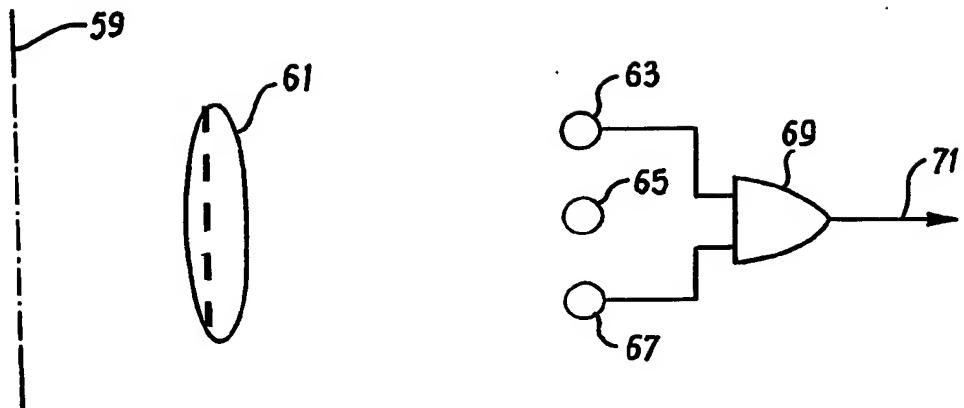
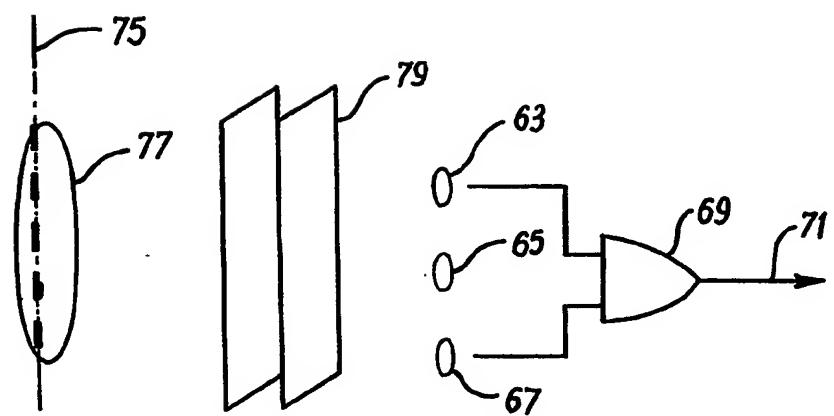
difference between original phase and retrieval phase

Fig 9d+1 order Intensity  $\times 10^4$ Fig 9e-1 order intensity  $\times 10^4$ Fig 9f

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Fig. 5Fig. 6

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Fig. 7Fig. 8

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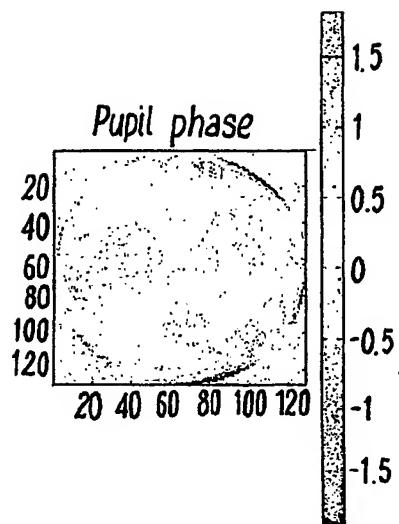


Fig. 10(a)(i)

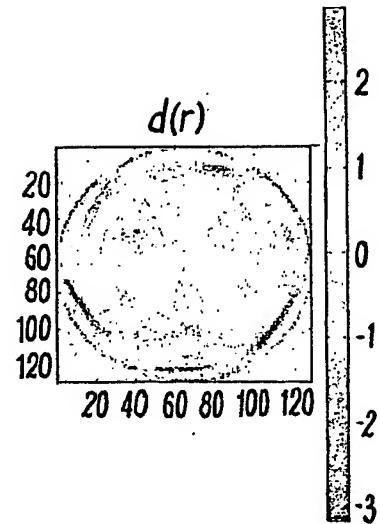


Fig. 10(a)(ii)

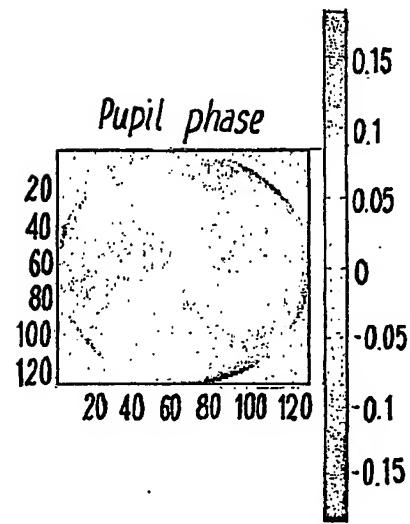


Fig. 10(b)(i)

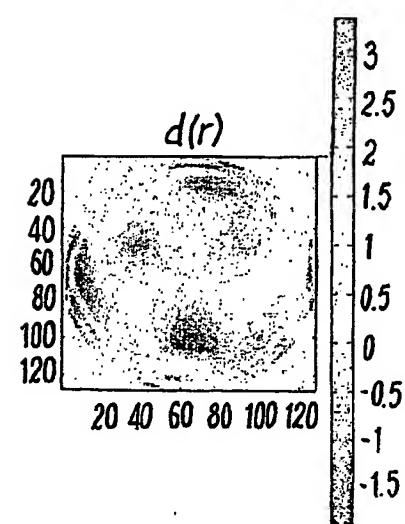
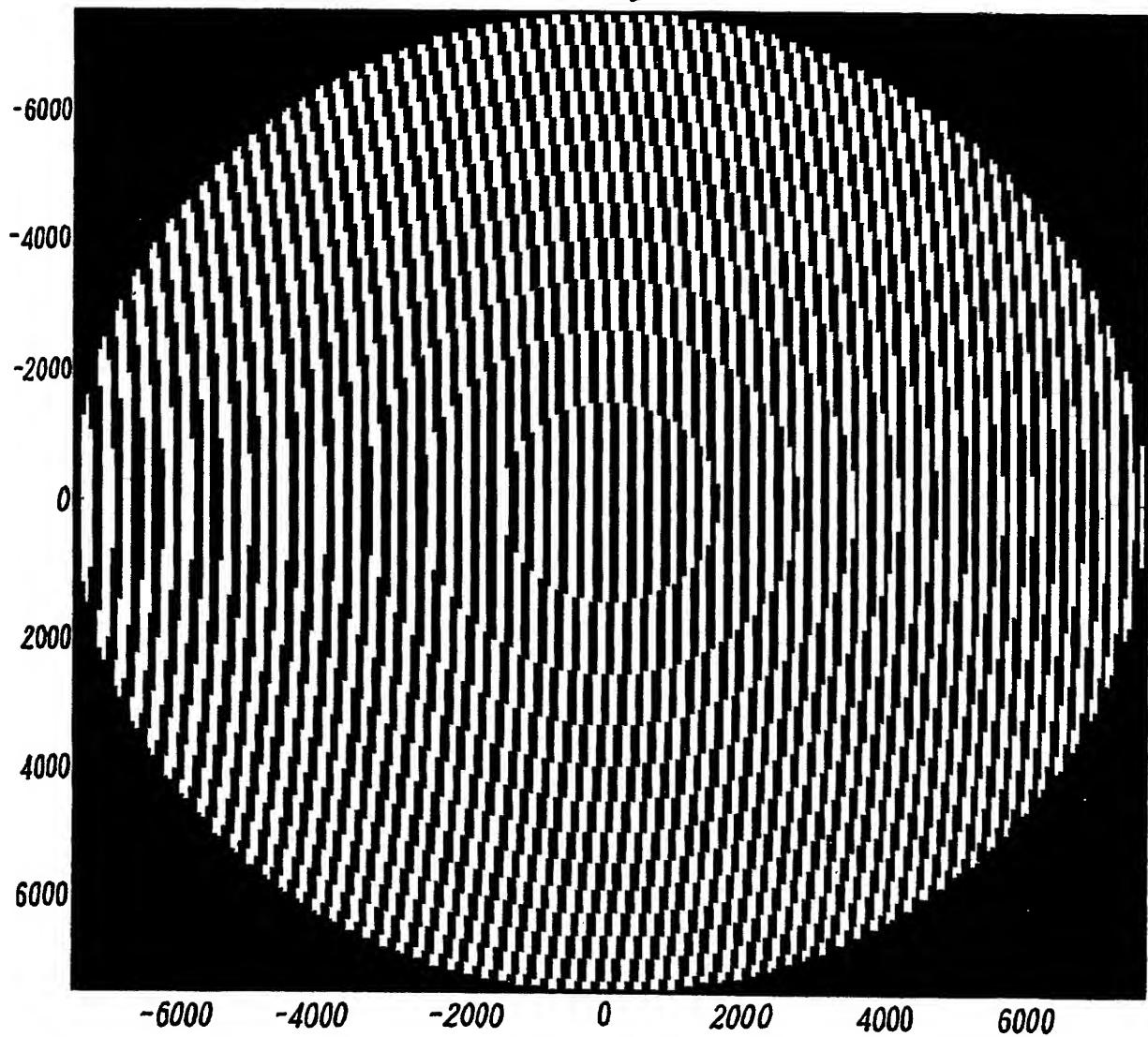


Fig. 10(b)(ii)

$\gamma_9$ 

Diffraction Grating with Defocus

Fig. 10(a)(iii)

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*Diffraction Grating with Spherical Aberration*

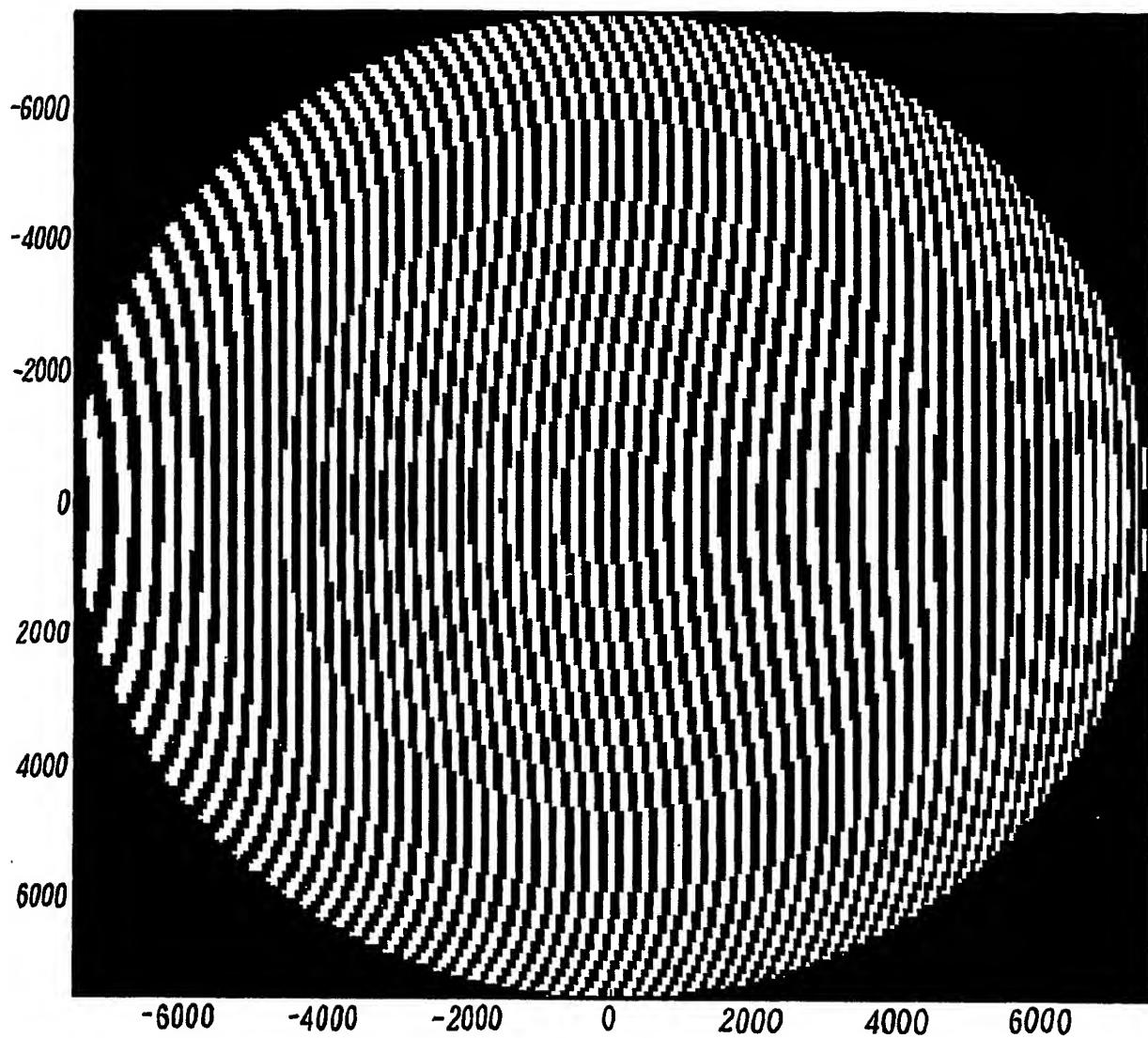
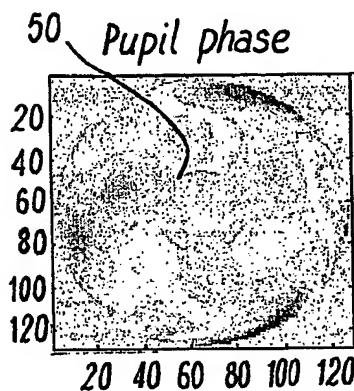
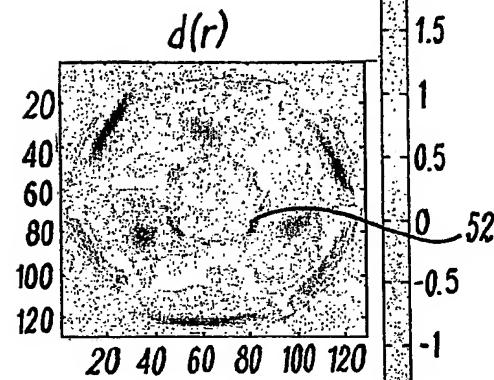
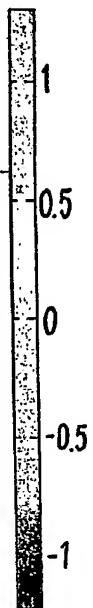
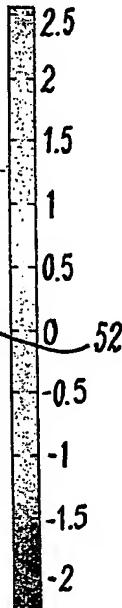
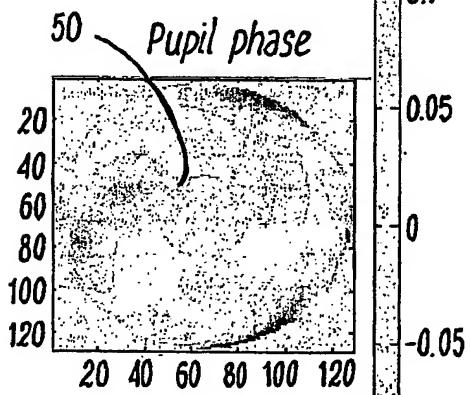
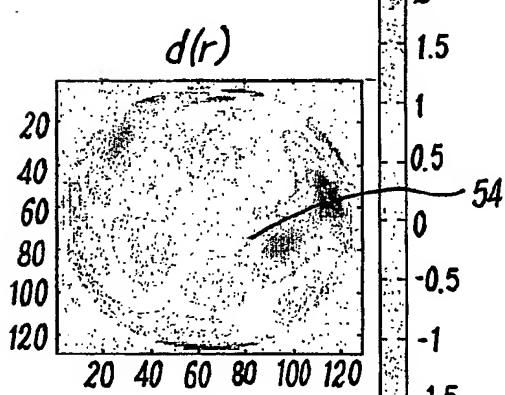
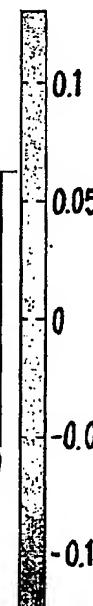
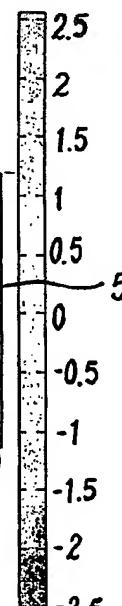


FIG. 10(b)(iii)

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*annular pupils*1) Defocus ( $2^*r^4$ , circular pupil)FIG. 11(a)FIG. 11(b)Spherical ( $6^*r^4$ , annular pupil)FIG. 11(c)FIG. 11(d)

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